IL5RA siRNA – Interleukin-5 Receptor Subunit Alpha Isoform 1 (Human)

PRODUCT OVERVIEW

Product Name	IL5RA, siRNA
Full Product Name	IL5RA siRNA (Human)
Product Gene Name	IL5RA sirna
Product Synonym Names	IL5R; Interleukin-5 receptor subunit alpha; IL-5 receptor subunit alpha; IL-5R subunit alpha; IL-5R-alpha; IL-5RA; CDw125; CD antigen CD125
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	IL5RA siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	23,737 Da
OMIM	147851
3D Structure	ModBase 3D Structure for Q01344
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human IL5RA gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for IL5RA sirna	RNA Interference (RNAi)
Related Product Information for IL5RA sirna	MBS8209882 is an siRNA targeting IL5RA. Also known as IL5RA siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit IL5RA expression using RNA interference
Other Notes	Small volumes of IL5RA sirna vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL5RA. It may not necessarily be applicable to this product.

NCBI GI #	28559021
NCBI GeneID	3568
NCBI Accession #	NP_000555.2
UniProt Primary Accession #	Q01344
UniProt Secondary Accession #	Q14633; Q15469; Q6ISX9; B3IU77; B4E2G0
UniProt Related Accession #	Q01344
GenBank Nucleotide #	NM_000564.4
NCBI Official Full Name	interleukin-5 receptor subunit alpha isoform 1
NCBI Official Synonym Full Names	interleukin 5 receptor, alpha
NCBI Official Symbol	IL5RA
NCBI Official Synonym Symbols	IL5R; CD125; CDw125; HSIL5R3
UniProt Protein Name	Interleukin-5 receptor subunit alpha
UniProt Synonym Protein Names	CDw125; CD_antigen: CD125
Protein Family	Interleukin-5 receptor
UniProt Gene Name	IL5RA
UniProt Synonym Gene Names	IL5R; IL-5 receptor subunit alpha; IL-5R subunit alpha; IL-5R-alpha; IL-5RA
UniProt Entry Name	IL5RA_HUMAN
NCBI Protein Information	interleukin-5 receptor subunit alpha
NCBI Summary for IL5RA	The protein encoded by this gene is an interleukin 5 specific subunit of a heterodimeric cytokine receptor. The receptor is comprised of a ligand specific alpha subunit and a signal transducing beta subunit shared by the receptors for interleukin 3 (IL3), colony stimulating factor 2 (CSF2/GM-CSF), and interleukin 5 (IL5). The binding of this protein to IL5 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL5. This protein has been found to interact with syndecan binding protein (syntenin), which is required for IL5 mediated activation of the transcription factor SOX4. Several alternatively spliced transcript variants encoding four distinct isoforms have been reported. [provided by RefSeq, Jul 2011]
UniProt Comments for IL5RA	IL5RA: This is the receptor for interleukin-5. The alpha chain binds to IL5. Belongs to the type I cytokine receptor family. Type 5 subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, cytokine; Membrane protein, integral Chromosomal Location of Human Ortholog: 3p26-p24 Cellular Component: extracellular space; integral to membrane; plasma membrane Molecular Function: protein binding; interleukin-5 receptor activity Biological Process: cell proliferation; regulation of interleukin-5 production; inflammatory response to antigenic stimulus; signal transduction
Research Articles on IL5RA	**1.** This is the first study to show significant associations between IL5RA SNP rs6771148, the ACTAGA haplotype, and the GTAGCA haplotype and the risk of rhinoconjunctivitis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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